

Amendment and Response Under 37 C.F.R. §1.116 - Expedited Examining Procedure

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Serial No.: 10/008,355

Confirmation No.: 4382

Filed: November 8, 2001

For: DIPEPTIDYLPEPTIDASES AND METHODS OF USE

### Amendments to the Claims

This listing of claims replaces all prior versions, and listings, of claims in the above-identified application:

1-56. (Canceled)

57. (Currently Amended) ~~An~~ The isolated nucleic acid of claim 54 having, the complement of which hybridizes to SEQ ID NO:1 under hybridization conditions of 0.5 M phosphate buffer, pH 7.2, 7% SDS, 10 mM EDTA, at 68°C, followed by three washes for 20 minutes each in 2x SSC, and 0.1% SDS, at 65°C;

wherein the isolated nucleic acid encodes a protein having dipeptidylpeptidase amidolytic activity;

wherein the isolated nucleic acid has a nucleotide sequence comprising SEQ ID NO:1;  
and

wherein the dipeptidylpeptidase amidolytic activity is defined as activity for cleaving the peptide bond between the second and the third amino acids from the unblocked amino-terminal end of a target polypeptide having an aliphatic or an aromatic residue as a substituent on the  $\alpha$ -carbon atom of the second amino acid from the unblocked amino-terminal end of the polypeptide, with the proviso that the second amino acid from the unblocked amino-terminal end of the polypeptide is not charged.

58-73. (Canceled)

74. (Currently Amended) ~~An~~ The isolated nucleic acid of claim 73 wherein the comprising a nucleotide sequence having has at least about 95% identity with SEQ ID NO:1;

wherein the nucleotide sequence encodes a protein having dipeptidylpeptidase amidolytic activity; and

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wherein the dipeptidylpeptidase amidolytic activity is defined as activity for cleaving the peptide bond between the second and the third amino acids from the unblocked amino-terminal end of a target polypeptide having an aliphatic or an aromatic residue as a substituent on the  $\alpha$ -carbon atom of the second amino acid from the unblocked amino-terminal end of the polypeptide, with the proviso that the second amino acid from the unblocked amino-terminal end of the polypeptide is not charged.

75. (Canceled)

76. (Previously Presented) An isolated nucleic acid consisting of nucleotide sequence SEQ ID NO:1.

77. (Canceled)